Kasvi Mahajan

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EDUCATION

UNIVERSITY OF WESTERN ONTARIO   London, ON
Bachelor of Science | Major in **Applied Mathematics**; Minor in Studio Arts   August 2025
Certifications: IBM Data Analysis for Beginners; Databases and SQL for Data Science with Python
Relevant Coursework: **Fundamentals of Computer Science**, **Data Science & Visualisation**, Advanced Calculus, **Numerical Analysis**, Financial Operations, **Statistics**, **Business Ethics**, Abstract Algebra, Differential Equations

WORK EXPERIENCE

University Of Western Ontario   London, ON
Data Analyst & Undergraduate Research Assistant: Department of History (International Relations)   *May 2025 – August 2025*
- Analysed data from 36 Canadian universities offering IR-related programmes, facilitating **comparative analysis** to identify KPIs and trends to guide departmental improvements at Western University.
- Developed an interactive **Power BI** dashboard by querying data using **SQL** to visualise these KPIs, trends, and strategic benchmarks, thereby enhancing decision-making for long-term programme enhancement.
- Establishing a **data-driven quality control strategy** for the IR programme utilising **peer-reviewed research** on higher education teaching strategies, in conjunction with the current resources available at Western University.

Undergraduate Research Assistant: Department of Mathematics   *May 2024 - September 2024*
- Performed data simulations in **Python,** analysing fitness landscapes and genome mutations, increasing research accuracy by 15%.
- Improved computational efficiency by 40% using **MATLAB/Python**, saving 6-7 hours in repetitive computations.

Undergraduate Research Assistant: Department of Earth Sciences   *June 2023 – April 2024*
- Conducted in-depth research on 15+ **peer-reviewed papers**, ensuring the research was aligned with ongoing project needs.
- Collaborated with PhD candidates to analyse **geological datasets**, contributing to a research project that improved data accuracy, resulting in enhanced overall research quality for hundreds of samples.

Ernst & Young   New Delhi, India
Project Intern   *May 2023– August 2023*
- Conducted real-time research utilising corporate business activities of over 50 companies with a focus on organisations like PowerGrid and Tata Enterprise, and their tenders to procure them as potential clients. Provided the collected data in an organised format using **Microsoft Excel**.
- **Curated data** from websites like psuwatch.com for ongoing news and changes in companies for updated information, and furnished my supervisors weekly.
- Utilised VBA and Pivot tables to automate data entry and calculations, streamlining workflow and improving efficiency

PROJECT EXPERIENCE | [My Portfolio](#)

Disease Modelling COVID-19 Data Analysis
- Curated COVID-19 case data for France in 2021 and developed an SVIR disease model that accurately predicted case trends, performing a detailed statistical analysis in MATLAB and Python to identify key factors influencing the spread.

Adventure Works Data Analysis
- **Analysed sales data** for a fictitious company that exports athletic gear and equipment, using **MS Excel, Pivot tables and VBA.**

Socio-Economic Factor Analysis for Income Prediction
- **Engineered and analysed a dataset** of **8,000** individuals using **Python**, handling missing values and encoding **8 categorical variables** to model the impact of demographic factors on income.

LEADERSHIP EXPERIENCE

Association for Women in Mathematics & Math Bridge | *Director of Outreach and Events*
- Organised promotional and **community** events with fellow executives, **increasing** student engagement by **25%**, and enhancing the club's Instagram **outreach** within Western's community.

Leadership And Mentorship Program | *General Science Mentor- Team Leader*
- **Established** relationships between freshmen and peer mentors; oversaw social and academic events alongside 2 Team Leaders, **enhancing** student **engagement**.

Western Science Students' Council | *Department Representative - International Committee Member*
- Coordinated **5 multicultural events** during the academic year, **boosting** student engagement and **enriching** the educational experience for over **500 participants**.

SKILLS AND INTERESTS

Technical Skills: MATLAB, Python, SQL, Microsoft Excel, Power BI, R, HTML/CSS
Soft Skills: Problem Solving, Research Analysis, Data Simulations, Mathematical Modelling
Languages: English (Fluent), Hindi (Fluent), German (Intermediate), French (Beginner)
Interests: Painting, Cooking, Cars, New Tech, Stand-up Comedy